YOLO-SOLANO AIR QUALITY MANAGEMENT DISTRICT
1947 Galileo Court, Suite 103, Davis, CA 95618
(530) 757-3650

PROPOSED TITLE V OPERATING PERMIT

Permit Number: F-01059-1~~0~~1

ISSUED TO:
Recology Hay Road
6426 Hay Road
Vacaville, CA 95687

PLANT SITE LOCATION:
6426 Hay Road
Vacaville, CA 95687

ISSUED BY:

Mat Ehrhardt, P.E., Air Pollution Control Officer — Date

PROPOSED	July 30, 2013
EFFECTIVE	PROPOSED
EXPIRATION	December 2, 2013

Nature of Business: Municipal Solid Waste Landfill

SIC Code: 4953

Responsible Official:

Name: Greg Pryor
Title: General Manager
Phone: 707-678-3257

Site Contact Person:

Name: Chris Taylor
Title: Site Manager
Phone: 707-678-4718

TABLE OF CONTENTS

I. FACILITY EMISSION UNITS AND EQUIPMENT LISTS:

A. Insignificant Emissions Units

Insignificant emissions units or exempted equipment may be supplemented, replaced or modified with non-identical equipment without notice provided exemption status has not changed as defined in current district or federal rules. The equipment listed in Table 1 is a partial listing of equipment currently identified as exempt or insignificant and not required to obtain an operating permit pursuant to Rule 3.2 (Exemptions) of the Yolo-Solano Air Quality Management District.

Table 1: Exempted and Insignificant Emissions Units (partial listing)

Insignificant Equipment Description	Basis for Exemption
Mobile construction equipment	District Rule 3.2, Section 101.1
Passenger and refuse hauling vehicles	District Rule 3.2, Section 101.1
Diesel-fired storm water pump, <50 hp	District Rule 3.2, Section 105.1
Aboveground diesel tank	District Rule 3.2, Section 109.2
Aboveground waste oil tanks	District Rule 3.2, Section 109.2
Oil filter crusher	District Rule 3.2, Section 109.2

B. Significant Emissions Unit Information

Each of the following emission units has been constructed pursuant to issuance of an Authority to Construct in accordance with District Rule 3.1 (General Permit Requirements) and Rule 3.4 (New Source Review).

Identification Number: **P-28-98(a)**

Equipment Description: One 500 gallon aboveground gasoline storage tank, one gasoline dispenser (1 nozzle), and one gasoline pressure/vacuum vent valve

Control Equipment: ~~———~~Balance vapor recovery system, Executive Orders: Phase I - G-70-142-B, Phase II - G-70-52-AM

Identification Number: **P-64-00**

Equipment Description: Petroleum contaminated soil handling for daily or intermediate cover material and for construction related uses on site

Control Equipment: ~~———~~None

Identification Number: **P-85-06(a~~4~~5)**

Equipment Description:	MSW landfill not to exceed a total maximum design capacity of 35.6 million cubic yards (17.0 million megagrams)
Control Equipment:	~~———~~Negative pressure landfill gas collection system with up to 100 collection wells (equipped with a 1500 CFM blower at 30 HP) and routed to a 45.6 MMBtu/hr enclosed flare with a minimum combustion zone residence time of 0.6 seconds
Identification Number:	**P-86-06**
Equipment Description:	150 BHP diesel fired Volvo IC engine, Model No. TAD520GE, Serial No. 5310181982, Model Year 2006, EPA Certified Tier II Engine
Control Equipment:	~~———~~Aftercooler and Turbocharger
Identification Number:	**P-81-10**
Equipment Description:	Waste pile 9 (approximately 7 acre lined containment pond) and various drying areas, including 2 adjacent drying areas and drying on top of lined waste cells
Control Equipment:	~~———~~None
~~**Identification Number:**~~	~~**P-5-11(a)**~~
~~Equipment Description:~~	~~170 BHP propane fired Kem Equipment IC engine, Model No. 8.1L, Serial No.6284080510, Model Year 2010~~
~~Control Equipment:~~	~~———Automatic air/fuel ratio controller and catalytic converter~~
Identification Number:	**P-33-13**
Equipment Description:	145 BHP propane fired Power Solutions Inc IC engine, Model No. 5.7LTCAC, Serial No. TBD, Model Year TBD
Control Equipment:	Automatic air/fuel ratio controller and catalytic converter

II. SPECIFIC UNIT REQUIREMENTS

A. Emission Limits

Gasoline Dispensing and Storage Operation (P-28-98(a))

A.1~~.~~ The VOC emissions from the gasoline storage and dispensing operation shall not exceed 0.3 lb/day, 20 lb/1st calendar quarter, 20 lb/2nd calendar quarter, 20 lb/3rd calendar quarter, 20 lb/4th calendar quarter, and 0.04 tons/calendar year. [District Rule 3.4/C-10-117]

Use of Designated Petroleum Contaminated Soil (P-64-00)

A.2~~.~~ The VOC emissions from the use of designated petroleum contaminated soil shall not exceed 249.0 lb/day, 6,500 lb/1st calendar quarter, 6,500 lb/2nd calendar quarter, 6,500 lb/3rd calendar quarter, 6,500 lb/4th calendar quarter, and 13.00 tons/calendar year. [District Rule 3.4/C-99-134]

A.3~~.~~ The PM_{10} emissions from the use of designated petroleum contaminated soil shall not exceed 44.0 lb/day, 402 lb/1st calendar quarter, 402 lb/2nd calendar quarter, 402 lb/3rd calendar quarter, 402 lb/4th calendar quarter, and 0.82 tons/year. [District Rule 3.4/C-99-134]

MSW Landfilling Operation (P-85-06(a~~4~~5))

A.4~~.~~ The VOC emissions from the MSW landfill operation and the enclosed landfill gas flare shall not exceed ~~194.7~~218.5 lb/day, ~~17,520~~19,667 lb/1st calendar quarter, ~~17,714~~19,885 lb/2nd calendar quarter, ~~17,909~~20,104 lb/3rd calendar quarter, ~~17,909~~20,104 lb/4th calendar quarter, and ~~35.53~~39.88 tons/calendar year. [District Rule 3.4/~~C-10-34~~C-13-02]

A.5~~.~~ The CO emissions from the landfill gas fired flare shall not exceed 218.9 lb/day, 19,699 lb/1st calendar quarter, 19,918 lb/2nd calendar quarter, 20,137 lb/3rd calendar quarter, 20,137 lb/4th calendar quarter, and 39.95 tons/calendar year. [District Rule 3.4/~~C-10-34~~C-13-02]

A.6~~.~~ The NO_X emissions from the landfill gas fired flare shall not exceed 54.7 lb/day, 4,925 lb/1st calendar quarter, 4,980 lb/2nd calendar quarter, 5,034 lb/3rd calendar quarter, 5,034 lb/4th calendar quarter, and 9.99 tons/calendar year. [District Rule 3.4/~~C-10-34~~C-13-02]

A.7~~.~~ The SO_X emissions from the landfill gas fired flare shall not exceed 150.0 lb/day, 13,600 lb/1st calendar quarter, 13,600 lb/2nd calendar quarter, 13,600 lb/3rd calendar quarter, 13,600 lb/4th calendar quarter, and 27.20 tons/calendar year. [District Rule 3.4/~~C-10-34~~C-13-02]

A.8~~.~~ The PM_{10} emissions from the landfill gas fired flare shall not exceed 18.4 lb/day, 1,655 lb/1st calendar quarter, 1,673 lb/2nd calendar quarter, 1,692 lb/3rd calendar quarter, 1,692 lb/4th calendar quarter, and 3.36 tons/calendar year. [District Rule 3.4/~~C-10-34~~C-13-02]

A.9~~.~~ The emission concentrations for the flare shall not exceed the following:

a. VOC (measured as hexane): 31.4 ppmv @ 3% oxygen;
b. CO: 0.200 lb/MMBtu; and
c. NO_X (as NO_2): 0.050 lb/MMBtu. [District Rule 3.4/~~C-10-34~~C-13-02]

Internal Combustion Engine Powering an Emergency Generator (P-86-06)

A.10~~.~~ The VOC emissions shall not exceed 2.4 lb/day, 20 lb/1st calendar quarter, 20 lb/2nd calendar quarter, 20 lb/3rd calendar quarter, 20 lb/4th calendar quarter, and 0.01 tons/year. [District Rule 3.4/C-06-119]

A.11~~.~~ The CO emissions shall not exceed 6.5 lb/day, 54 lb/1st calendar quarter, 54 lb/2nd calendar quarter, 54 lb/3rd calendar quarter, 54 lb/4th calendar quarter, and 0.03 tons/year. [District Rule 3.4/C-06-119]

A.12~~.~~ The NO_X emissions shall not exceed 32.5 lb/day, 271 lb/1st calendar quarter, 271 lb/2nd calendar quarter, 271 lb/3rd calendar quarter, 271 lb/4th calendar quarter, and 0.14 tons/year. [District Rule 3.4/C-06-119]

A.13~~.~~ The SO_X emissions shall not exceed 1.5 lb/day, 12 lb/1st calendar quarter, 12 lb/2nd calendar quarter, 12 lb/3rd calendar quarter, 12 lb/4th calendar quarter, and 0.01 tons/year. [District Rule 3.4/C-06-119]

A.14~~.~~ The PM_{10} emissions shall not exceed 0.7 lb/day, 6 lb/1st calendar quarter, 6 lb/2nd calendar quarter, 6 lb/3rd calendar quarter, 6 lb/4th calendar quarter, and negligible tons/year. [District Rule 3.4/C-06-119]

Receiving, Storage, and Drying of Non-hazardous Sludge with Odor Potential (P-81-10)

A.15~~.~~ The VOC emissions from the non-hazardous sludge operation shall not exceed 0.1 lb/day, 1 lb/1st calendar quarter, 1 lb/2nd calendar quarter, 1 lb/3rd calendar quarter, 1 lb/4th calendar quarter, and negligible tons/calendar year. [District Rule 3.4/C-10-42]

~~**Internal Combustion Engine Powering a Tipper (P-5-11(a))**~~

~~16. The VOC emissions from the tipper engine shall not exceed 1.0 lb/day, 49 lb/1st calendar quarter, 49 lb/2nd calendar quarter, 49 lb/3rd calendar quarter, 49 lb/4th calendar quarter, and 0.10 tons/calendar year. [District Rule 3.4 and 40 CFR Part 60.4234/C-12-11]~~

~~17. The CO emissions from the tipper engine shall not exceed 25.5 lb/day, 1,305 lb/1st calendar quarter, 1,305 lb/2nd calendar quarter, 1,305 lb/3rd calendar quarter, 1,305 lb/4th calendar quarter, and 2.61 tons/calendar year. [District Rule 3.4 and 40 CFR Part 60.4234/C-12-11]~~

~~18. The NO_x emissions from the tipper engine shall not exceed 3.5 lb/day, 179 lb/1st calendar quarter, 179 lb/2nd calendar quarter, 179 lb/3rd calendar quarter, 179 lb/4th calendar quarter, and 0.36 tons/calendar year. [District Rule 3.4 and 40 CFR Part 60.4234/C-12-11]~~

~~19. The SO_x emissions from the tipper engine shall not exceed 0.5 lb/day, 27 lb/1st calendar quarter, 27 lb/2nd calendar quarter, 27 lb/3rd calendar quarter, 27 lb/4th calendar quarter, and 0.05 tons/calendar year. [District Rules 2.11 and 3.4/C-12-1]~~

~~20. The PM_{10} emissions from the tipper engine shall not exceed 0.4 lb/day, 20 lb/1st calendar quarter, 20 lb/2nd calendar quarter, 20 lb/3rd calendar quarter, 20 lb/4th calendar quarter, and 0.04 tons/calendar year. [District Rules 2.11 and 3.4/C-12-11]~~

~~21. Emission rates for the tipper engine shall not exceed the following:~~
~~a. VOC (measured as methane) - 72 ppmv @ 15% O_2;~~
~~b. CO - 1,083 ppmv @ 15% O_2; and~~

~~c. NO_x (as NO_2) - 90 ppmv @ 15% O_2. [District Rule 2.32, §301.4 and District Rule 3.4/C-12-11]~~

Internal Combustion Engine Powering a Limited Use Generator Providing Power for a Truck Tipper (P-33-13)

A.16 The VOC emissions shall not exceed negligible lb/day, 4 lb/1st calendar quarter, 4 lb/2nd calendar quarter, 4 lb/3rd calendar quarter, 4 lb/4th calendar quarter, and 0.01 tons/year. [District Rule 3.4/C-13-66]

A.17 The CO emissions shall not exceed 6.1 lb/day, 557 lb/1st calendar quarter, 557 lb/2nd calendar quarter, 557 lb/3rd calendar quarter, 557 lb/4th calendar quarter, and 1.11 tons/year. [District Rule 3.4/C-13-66]

A.18 The NOX emissions shall not exceed 0.8 lb/day, 75 lb/1st calendar quarter, 75 lb/2nd calendar quarter, 75 lb/3rd calendar quarter, 75 lb/4th calendar quarter, and 0.15 tons/year. [District Rule 3.4/C-13-66]

A.19 The SOX emissions shall not exceed 0.3 lb/day, 27 lb/1st calendar quarter, 27 lb/2nd calendar quarter, 27 lb/3rd calendar quarter, 27 lb/4th calendar quarter, and 0.05 tons/year. [District Rule 3.4/C-13-66

A.20 The PM_{10} emissions shall not exceed 0.2 lb/day, 20 lb/1st calendar quarter, 20 lb/2nd calendar quarter, 20 lb/3rd calendar quarter, 20 lb/4th calendar quarter, and 0.04 tons/year. [District Rule 3.4/C-13-66]

A.21 Emission rates shall not exceed the following:
a. VOC (measured as methane) - 3 ppmv @ 15% O2;
b. CO - 239 ppmv @ 15% O2; and
c. NOX (as NO2) - 20 ppmv @ 15% O2. [District Rule 3.4/C-13-66]

A.22~~.~~ For all operations, except the IC engine under P-86-06, ~~landfill operation under P-85-06(a4), the IC engine operating under P-5-11(a),~~ and the sludge acceptance operation under P-81-10, the Permit Holder shall not discharge into the atmosphere from any single source of emission whatsoever, any air contaminant for a period or periods aggregating more than three (3) minutes in any one (1) hour which is:
a. As dark or darker in shade as that designated as No. ~~2~~1 on the Ringelmann Chart as published by the United States Bureau of Mines; or
b. Greater than ~~4~~20% opacity. [District Rule 2.3]

A.23~~.~~ For ~~the general operations at the MSW landfill operation under P-85-06(a4)~~, the IC engine under P-86-06~~, the IC engine operating under P-5-11(a)~~, and the sludge acceptance operation under P-81-10, the Permit Holder shall not discharge into the atmosphere from any single source of emission whatsoever, any air contaminant for a period or periods aggregating more than three (3) minutes in any one (1) hour which is:
a. As dark or darker in shade than No. 1 on the Ringelmann Chart; or
~~b.~~ Greater than 20% opacity. [District Rule 3.1/C-06-119, ~~C-10-34~~, and C-10-42~~, and C-12-11~~]

A.24 For the general operations at the MSW landfill operating under P-85-06(a5) and the IC engine under P-33-13, the Permit Holder shall not discharge into the atmosphere from any single source

whatsoever, any air contaminant for a period or periods aggregating more than three (3) minutes in any one (1) hour which is:
a. As dark or darker in shade than No. 1 on the Ringelmann Chart; or
b. Greater than 20% opacity. [District Rule 3.4/C-13-02 and C-13-66]

B. Work Practice and Operational Requirements

Gasoline Dispensing and Storage Operation (P-28-98(a))

B.1[24.] The gasoline throughput for the gasoline storage and dispensing operation shall not exceed 120 gallons/day, 7,500 gallons/1st calendar quarter, 7,500 gallons/2nd calendar quarter, 7,500 gallons/3rd calendar quarter, 7,500 gallons/4th calendar quarter, and 30,000 gallons/calendar year. [District Rule 3.4/C-10-117]

B.2[25.] Gasoline shall not be stored in open containers of any size and gasoline shall not be handled in any manner that allows gasoline liquid or vapors to enter the atmosphere, contaminate the ground, or the public sewer system. [District Rule 2.22, §301]

B.3[26.] A person shall not top off motor vehicle fuel tanks. [District Rule 2.22, §303]

B.4[27.] Transfer of gasoline into any storage tank and/or into any motor vehicle fuel tank shall be made using a California Air Resources Board (CARB) certified vapor recovery system that recovers or processes displaced gasoline vapors by at least 95% by weight. [District Rule 2.22, §304.1 and §305.1]

B.5[28.] The vapor recovery system shall be maintained and operated according to the manufacturer's specifications and as per the most recent applicable CARB executive orders. [District Rule 2.22, §304.2 and §305.2/C-10-117]

B.6[29.] All vapor return lines shall be connected between the transport vessel and the storage tank while gasoline is transferred. [District Rule 2.22, §304.3/C-10-117]

B.7[30.] The gasoline storage tank shall be equipped with a CARB certified submerged fill tube. The fill tube shall be maintained liquid tight, vapor tight, and free of air ingestion. [District Rule 2.22, §304.4 and §304.5]

B.8[31.] The following equipment shall be installed, operated, and maintained as specified below:
a. All fill tubes are equipped with vapor tight caps;
b. All dry breaks are equipped with vapor tight seals and vapor tight caps;
c. All CARB certified coaxial fill tubes are spring-loaded and operated so that the vapor passage from the storage tank back to the transport vessel is not obstructed;
d. The fill tube assembly, including fill tube, fittings and gaskets, is maintained to prevent vapor leakage from any portion of the vapor recovery system;
e. All storage tank vapor return lines without dry breaks are equipped with vapor tight caps;
f. Each vapor tight cap is in a closed position except when the fill tube or dry break it serves is actively in use; and
g. Each gasoline delivery elbow is equipped with a sight window. [District Rule 2.22, §304.6]

B.9[32.] The storage tank shall be equipped with a pressure-vacuum relief value in accordance with the most recent CARB executive orders. [District Rule 2.22, §304.11]

B.10~~33.~~ The vapor recovery system and associated components shall be operated and maintained free of major defects and in a vapor and liquid tight condition at all times. [District Rule 2.22, §305.3/C-10-117]

B.11~~34.~~ All balance-system nozzle boots shall be replaced at least once per year with a record made in the maintenance log. [District Rule 2.22, §305.6/C-10-117]

B.12~~35.~~ In the event of a driveoff, the owner/operator shall either perform qualified repairs and conduct and pass appropriate reverification tests or replace affected equipment. The District shall be notified within 24 hours of completion of these requirements. [District Rule 2.22, §305.10/C-10-117]

B.13~~36.~~ The Permit Holder shall implement a self-compliance program that includes:

a. Quarterly self-inspection and maintenance procedures to be completed at least once every three (3) months using a District approved quarterly inspection form; and

b. Annual self-inspection procedures to be completed at least once every twelve (12) months using a District approved annual inspection form. [District Rule 2.22, §306.2/C-10-117]

Petroleum Contaminated Soil Handling Operation (P-64-00)

B.14~~37.~~ This permit allows the Permit Holder to accept contaminated soil only for use as daily or intermediate cover material and for construction related uses. This permit does not allow the Permit Holder to treat or aerate contaminated soil to cause the evaporation of uncontrolled VOCs to the atmosphere. [District Rule 3.4/C-99-134]

B.15~~38.~~ The Permit Holder shall cover stored petroleum contaminated soil with six (6) inches of clean soil. As expeditiously as possible, the Permit Holder shall cover petroleum contaminated soil used as construction material with twelve (12) inches of clean soil. [District Rule 3.4/C-99-134]

B.16~~39.~~ The Permit Holder shall not store petroleum contaminated soil together with biosolid sludge. [District Rule 3.4/C-99-134]

MSW Landfilling Operation (P-85-06(a~~4~~5))

B.17~~40.~~ The amount of municipal waste received by the landfill operation shall not exceed 2,400 tons/day, ~~108,000~~216,000 tons/1st calendar quarter, ~~109,200~~218,400 tons/2nd calendar quarter, ~~110,400~~220,800 tons/3rd calendar quarter, ~~110,400~~220,800 tons/4th calendar quarter, and ~~438,000~~876,000 tons/year. [District Rule 3.4/~~C-10-34~~C-13-02]

~~41. Solid waste throughput shall not exceed 1,200 tons per day, as averaged on a calendar week basis. [District Rule 3.4/C-10-34]~~

B.18~~42.~~ The amount of landfill gas combusted in the flare shall not exceed 2.432 million cubic feet/day, 218.9 million cubic feet/1st calendar quarter, 221.3 million cubic feet/2nd calendar quarter, 223.7 million cubic feet/3rd calendar quarter, 223.7 million cubic feet/4th calendar quarter, and 887.7 million cubic feet/year. [District Rule 3.4/~~C-10-34~~C-13-02]

B.19~~43.~~ The SO_X emissions from the landfill gas fired flare shall not exceed 150.0 lb/day, 13,600 lb/1st calendar quarter, 13,600 lb/2nd calendar quarter, 13,600 lb/3rd calendar quarter, 13,600 lb/4th calendar quarter, and 54,400 pounds/calendar year. [District Rule 3.4/~~C-10-34~~C-13-02]

B.20 The Permit Holder shall operate the landfill Gas Collection and Control System (GCCS) and route collected gas to the control system continuously except:

a. for individual wells involved in well raising provided that new waste is being added or compacted in the immediate vicinity around the well and installed gas collection well extensions are sealed or capped until the raised well is reconnected to a vacuum source, or

b. for individual GCCS system components that must be temporarily shut down in order to repair them due to catastrophic events, to connect new GCCS components, to extinguish landfill fires, or to perform construction activities provided that any new components are included in the most recent GCCS design plan and landfill gas emissions are minimized during the shutdown. [District Rule 3.4/C-13-02]

B.21 The Permit Holder shall operate the GCCS so that there is no landfill gas leak that exceeds 500 ppmv (as methane) at any component under positive pressure. [District Rule 3.4/C-13-02]

B.22 The GCCS shall be designed and operated to draw all landfill gas toward the VOC control device. [District Rule 3.4/C-13-02]

B.23 The flare (or other VOC control device) shall reduce methane emissions by 99% (by weight. [District Rule 3.4/C-13-02]

B.24~~44.~~ The minimum flare operating temperature ~~required to achieve compliance with the VOC emission concentration limit~~ shall be 1,380 degrees Fahrenheit (°F), as determined on a rolling three (3) hour basis. The flare combustion flame temperature shall be measured in units of degrees F and shall be monitored at the therm~~al~~o couple in the exhaust stack. Flame temperature shall be monitored with a continuous ~~reading~~recording temperature sensor, which has an accuracy of ± 1% of the temperature range, which is installed, calibrated, maintained, and operated according to manufacturer's specifications. [District Rule 3.4/~~C-10-34~~C-13-02]

B.25 At least one gas flow rate measuring device, which records the flow to the control device(s) at least once every 15 minutes, must be used to monitor the landfill gas control system. [District Rule 3.4/C-13-02]

B.26 The flare shall operate continuously to control emissions from the landfill gas collection system, except for shutdowns necessary for inspection and maintenance activities or due to mechanical breakdown, or when landfill gas from the landfill gas collection system is fully diverted to another device with a minimum VOC control efficiency of 98% (by weight). [District Rule 3.4/C-13-02]

B.27 The flare shall be operated within the parameter ranges established during the most recent performance test. [District Rule 3.4/C-13-02]

B.28 Periods of flare shutdown for inspection and maintenance activities or periods of mechanical breakdown shall not exceed five (5) consecutive days and 240 hours in any calendar year and emission of raw landfill gas to the atmosphere shall be minimized during such periods. Periods during which the landfill gas from the landfill gas collection system is fully diverted to another VOC control device shall not be included in the five (5) day or 240 hour limit. [District Rule 3.4/C-13-02]

B.29 The flare shall be equipped with automatic dampers, an automatic shutdown device, a flame arrester, and continuous recording temperature sensors. [District Rule 3.4/C-13-02]

B.30~~45.~~ Only landfill gas shall be burned in the flare. No supplemental fuel may be burned in the flare, excluding pilot gas. [District Rule 3.4/~~C-10-34~~C-13-02]

B.31 During restart or startup there must be a sufficient flow of pilot gas to the burners to prevent unburned collected methane from being emitted to the atmosphere. [District Rule 3.4/C-13-02]

B.32~~46.~~ A non-resettable, totalizing gaseous fuel flow meter shall be installed and utilized to measure the quantity (in cubic feet) of landfill gas combusted in the flare. The meter shall be accurate to plus or minus five percent and shall be calibrated at least once every twelve (12) months. [District Rule 3.4/~~C-10-34~~C-13-02]

B.33 Each wellhead in the GCCS shall be operated under a vacuum except:

a. for individual wells involved in well raising provided that new waste is being added or compacted in the immediate vicinity around the well and installed gas collection well extensions are sealed or capped until the raised well is reconnected to a vacuum source

b. for individual GCCS system components that must be temporarily shut down in order to repair them due to catastrophic events, to connect new GCCS components, to extinguish landfill fires, or to perform construction activities provided that any new components are included in the most recent design plan and landfill gas emissions are minimized during the shutdown

c. for use of a geomembrane or synthetic cover for which acceptable pressure limits for the included wellheads have been developed and included in the GCCS design plan, or

d. for decommissioned wells. [District Rule 3.4/C-13-02]

B.34 No location on the landfill surface may exceed a methane concentration of 500 ppmv (other than non-repeatable, momentary readings) as determined by instantaneous surface emissions monitoring, or an average of 25 ppmv as determined by integrated surface emissions monitoring except:

a. for individual wells involved in well raising provided that new waste is being added or compacted in the immediate vicinity around the well and installed gas collection well extensions are sealed or capped until the raised well is reconnected to a vacuum source

b. for individual GCCS system components that must be temporarily shut down in order to repair them due to catastrophic events, to connect new GCCS components, to extinguish landfill fires, or to perform construction activities provided that any new components are included in the most recent design plan and landfill gas emissions are minimized during the shutdown

c. for the working face of the landfill, or

d. for areas of the landfill surface where the landfill cover material has been removed and refuse has been exposed for the purpose of installing, expanding, replacing, or repairing components of the landfill gas, leachate, or gas condensate collection and removal system, or for law enforcement activities requiring excavation. [District Rule 3.4/C-13-02]

B.35~~47.~~ The Permit Holder shall install and maintain such facilities on the flare stack as are necessary for sampling and testing purposes. The number, size, and location of sampling ports shall be in accordance with Air Resources Board Test Method 1. The location and access to the sampling platform shall be in accordance with the General Industry Safety Orders of the State of California. [District Rule 3.4/~~C-10-34~~C-13-02]

B.36~~48.~~ The Permit Holder is prohibited from adding any liquid (other than leachate and landfill gas condensate) in a controlled fashion to any waste mass in order to accelerate or enhance the anaerobic biodegradation of the waste. [District Rule 3.4/~~C-10-34~~C-13-02]

~~49. Upon achieving a calculated NMOC emission rate of 50 megagrams or greater per year, the Permit Holder shall comply with the requirements of 40 CFR Part 60.752(b)(2). The landfill's NMOC emission rate shall be calculated in accordance with the requirements of 40 CFR Part 60.754. [District Rule 3.4/C-10-34]~~

B.37~~50.~~ The Permit Holder shall comply with the applicable requirements for active disposal sites for asbestos-containing materials as set forth in 40 CFR Part 61, Subpart M - National Emission Standard for Asbestos. [40 CFR Part 61.140/~~C-10-34~~C-13-02]

B.38~~51.~~ The Permit Holder shall comply with the applicable requirements for the handling and the disposal of the affected appliances and equipment containing ozone depleting substances, as set forth in 40 CFR Part 82, Subpart F - Recycling and Emission Reduction. [40 CFR Part 82.150/~~C-10-34~~C-13-02]

B.39 The Permit Holder shall calculate a VOC emission rate for the landfill annually until such time as the calculated VOC emission rate is equal to or greater than 50 megagrams per year, or until the landfill is closed. If the calculated VOC emission rate is less than 50 megagrams per year, the Permit Holder shall submit an annual emission report to the APCO. If the emission rate is equal to or greater than 50 megagrams per year, the Permit Holder shall install a collection and control system in compliance with 40 CFR 60.752(b)(2). If the landfill is permanently closed, the Permit Holder shall submit a closure notification to the APCO as provided in 40 CFR 60.757(d). [40 CFR 60.752(b)(1)]

B.40 The Permit Holder shall calculate the VOC emission rate using either:

a. $M_{VOC} = \sum_{i=1}^{n} 2\ k\ L_o\ M_i\ (e^{-kt}i)(C_{VOC})(3.6 \times 10^{-9})$, if the year-to-year solid waste acceptance rate is known

or

b. $M_{VOC} = 2\ L_o\ R\ (e^{-kc}-e^{-kt})(C_{VOC})(3.6 \times 10^{-9})$, if the year-to-year solid waste acceptance rate is unknown, Where:

M_{VOC} = mass emission rate of VOC, megagrams per year,
M_i = mass of solid waste in the ith section, megagrams,
L_o = methane generation potential, cubic meters per megagram solid waste = 170,
k = methane generation rate constant, $year^{-1}$ = 0.05 (0.02 for landfills located where the thirty year annual average precipitation is less than 25 inches, as measured at the nearest representative official meteorologic site),
t = age of landfill at gas collection system installation plus the intended time of use of the system, years,
t_i = age of ith section, years,
R = average annual acceptance rate, megagrams per year (the mass of nondegraable solid waste may be subtracted from the total mass of solid waste in a particular section of the landfill when calculating the value of R if documentation of the nature and amount of such waste is maintained),
c = time since closure, years; for active landfill c = 0,
C_{VOC} = VOC concentration, parts per million by volume as hexane = 4,000. [40 CFR 60.754(a)(1)]

B.41 The Permit Holder shall operate and maintain the affected source at all times, including periods of startup, shutdown, and malfunction, in a manner consistent with safety and good air pollution

control practices. During a period of startup, shutdown, or malfunction the Permit Holder shall reduce emissions to the greatest extent which is consistent with safety and good air pollution control practices. The Permit Holder shall develop a written startup, shutdown, and malfunction plan that details procedures for operating and maintaining the source during such periods. The Permit Holder must maintain any prior versions of the plan for the same period as other required records. [40 CFR 63.6(e) and District Rule 3.4/C-13-02]

B.42 The Permit Holder may request alternatives to the compliance measures, monitoring requirements, test methods, and procedures of Sections 95464, 95469, and 95471 of Title 17 of the California Code of Regulations by submitting a written application to the APCO. [District Rule 3.4/C-13-02]

B.43 Upon closure of the landfill the GCCS may be capped or removed provided:

a. the GCCS was in operation for at least 15 years, unless the Permit Holder can demonstrate to the satisfaction of the APCO that due to declining methane rates the landfill will be unable to operate the gas collection and control system for a 15-year period,

b. surface methane concentration measurements do not exceed the limits specified in this permit, and

c. the Permit Holder submits an Equipment Removal Report as required by this permit. [Title 17 CCR, Section 95467]

Internal Combustion Engine Powering an Emergency Generator (P-86-06)

B.44[52.] The diesel usage for the IC engine shall not exceed 168 gallons/day, 1,400 gallons/1st calendar quarter, 1,400 gallons/2nd calendar quarter, 1,400 gallons/3rd calendar quarter, 1,400 gallons/4th calendar quarter, and 1,400 gallons/calendar year. [District Rule 3.4/C-06-119]

B.45[53.] The Permit Holder shall not operate the IC engine more than 50 hours per calendar year for maintenance and testing purposes, and such operation shall be scheduled in cooperation with the District so as to limit air quality impact. [District Rule 3.4, §110.1/C-06-119]

B.46[54.] The Permit Holder shall not operate the IC engine more than 200 hours per calendar year. [District Rule 3.4, §110.2/C-06-119]

B.47[55.] The Permit Holder shall not operate the IC engine for the supplying of power to a serving utility for distribution on the grid. [District Rule 3.4, §110.3/C-06-119]

B.48[56.] The Permit Holder's operation of the IC engine for reasons other than maintenance purposes shall be limited to actual interruptions of electrical power by the serving utility. [District Rule 3.4, §110.4/C-06-119]

Receiving, Storage, and Drying of Non-hazardous Sludge with Odor Potential (P-81-10)

B.49[57.] The amount of non-hazardous sludge waste received, stored, and dried shall not exceed 1,000 tons/day, 27,000 tons/1st calendar quarter, 18,000 tons/2nd calendar quarter, 10,000 tons/3rd calendar quarter, 26,000 tons/4th calendar quarter, and 81,000 tons/year. [District Rule 3.4/C-10-42]

B.50[58.] The facility shall implement and maintain an odor control plan for prevention of nuisance odors. The plan shall be updated as necessary, or as required by the District, and any changes to the plan shall be approved by the District prior to implementation. [District Rule 3.4/C-10-42]

~~**Internal Combustion Engine Powering a Tipper (P-5-11(a))**~~

~~59. The amount of propane combusted in the engine shall not exceed 394 gallons/day, 20,172 gallons/1st calendar quarter, 20,172 gallons/2nd calendar quarter, 20,172 gallons/3rd calendar quarter, 20,172 gallons/4th calendar quarter, and 80,688 gallons/year. [District Rule 3.4/C-12-11]~~

~~60. A non-resettable, totalizing fuel flow meter shall be installed and utilized to measure the quantity of propane combusted in the engine. [District Rule 2.32, §304.1/C-12-11]~~

~~61. The air-to-fuel ratio controller must be maintained and operated appropriately to ensure proper operation of the engine and control device. [40 CFR Part 60.4243(g)/C-12-11]~~

Internal Combustion Engine Powering a Limited Use Generator Providing Power for a Truck Tipper (P-33-13)

B.51 The amount of propane combusted in the engine shall not exceed 229 gallons/day, 20,851 gallons/1st calendar quarter, 20,851 gallons/2nd calendar quarter, 20,851 gallons/3rd calendar quarter, 20,851 gallons/4th calendar quarter, and 83,404 gallons/year. [District Rule 3.4/C-13-66]

B.52 A non-resettable, totalizing fuel flow meter shall be installed and utilized to measure the quantity of propane combusted in the engine. [District Rule 2.32, §304.1/C-13-66]

B.53 The air to fuel ratio controller must be maintained and operated appropriately to ensure proper operation of the engine and control device. [40 CFR Part 60.4243(g)/C-13-66]

C. Monitoring and Testing Requirements

Gasoline Dispensing and Storage Operation (P-28-98(a))

C.1~~62.~~ A source test shall be conducted and passed every twelve (12) calendar months. [District Rule 2.22, §309.3/C-10-117]

C.2~~63.~~ No adjustments shall be made to the facility the day of the source test. The test shall be conducted in an "as-is" condition. [District Rule 2.22, §309.3/C-10-117]

C.3~~64.~~ Source test methods performed shall include: Static Pressure Decay TP-201.3B. [District Rule 2.22, §309.1/C-10-117]

C.4~~65.~~ The District shall be notified of the date and time of all source testing at least three (3) days in advance of the testing. [District Rule 2.22, §309.4(b)/C-10-117]

C.5~~66.~~ The Permit Holder shall submit all test results within two (2) days of conducting the test. [District Rule 2.22, §309.4(d)/C-10-117]

C.6~~67.~~ If an initial or reverification test is failed, the facility must successfully pass a retest prior to resuming operation. If a dispenser has failed testing and the failure does not affect the proper operation of the rest of the facility, the facility may resume operation with the affected dispenser isolated and shut down. [District Rule 2.22, §309.5/C-10-117]

Petroleum Contaminated Soil Handling Operation (P-64-00)

C.7~~68.~~ The Permit Holder may measure total VOC concentration of the petroleum contaminated soil for purposes of calculating VOC emissions if the District approves in writing the sampling and test measurement protocol before the total VOC concentration is measured. [District Rule 3.4/C-99-134]

MSW Landfilling Operation (P-85-06(a~~4~~5))

C.8~~69.~~ The Permit Holder shall operate the enclosed flare with a minimum combustion zone residence time of 0.6 seconds~~,~~ and shall equip the flare with automatic temperature controls ~~designed to control the average minimum temperature, on a rolling 3-hour average basis, at or above 1,380 degrees Fahrenheit (° F)~~. The enclosed flare shall also be equipped with an automatic shutoff gas valve and an automatic re-start system. [District Rule 3.4/~~C-10-34~~C-13-02]

~~70. The minimum flare operating temperature required to achieve compliance with the VOC emission concentration limit shall be 1,380° F. The flare combustion flame temperature shall be measured in units of "° F" and shall be monitored at thermal couple in the exhaust stack. Flame temperature shall be monitored with a continuous reading temperature sensor. [District Rule 3.4/C-10-34]~~

C.9~~71.~~ The Permit Holder shall analyze the fuel's higher heating value (wet basis) at least once every twelve (12) consecutive month period. [District Rule 3.4/~~C-10-34~~C-13-02]

C.10~~72.~~ The Permit Holder shall analyze the fuel's hydrogen sulfide (H_2S) content at least once every 30 consecutive calendar days and shall use the results of the analysis to calculate and record the SO_X emissions for the corresponding time period. The calculation methodology shall be approved by the District and shall assume that 100% of the sulfur from H_2S is converted and emitted as SO_X. [District Rule 3.4/~~C-10-34~~C-13-02]

C.11 Components containing landfill gas and under positive pressure must be monitored quarterly for leaks. Any component leak must be tagged and repaired within ten (10) calendar days. [District Rule 3.4/C-13-02]

C.12 The Permit Holder shall calculate the landfill gas heat input capacity using:
Heat Input Capacity = SCFM * 60 min/1hr * CE * GHV * 1 MMBtu/1,000,000 Btu
Where:

SCFM = methane gas generation, standard cubic feet per minute,
CE = landfill gas collection efficiency, 75%, and
GHV = gross heating value of methane, 1,012 Btu/scf. [District Rule 3.4/C-13-02]

C.13~~73.~~ The Permit Holder shall perform a source test on the flare at least once every twelve (12) months in order to demonstrate compliance with the VOC, CO, and NO_x emission limits. [District Rule 3.4/~~C-10-34~~C-13-02]

C.14~~74.~~ Source testing shall be conducted using the following test methods:

a. VOC - EPA Method 18;
b. CO - EPA Method 10 or CARB Method 100;
c. NO_X (as NO_2) - EPA Method 7E or CARB Method 100; and
d. Stack gas oxygen - EPA Method 3A or CARB Method 100. [District Rule 3.4/~~C-10-34~~C-13-02]

C.15 Unless otherwise approved by the APCO, EPA Method 25, 25A, 25C, or 18 shall be used to determine the efficiency of the control device using the formula:

Destruction efficiency = [1 – (mass of methane at control device outlet / mass of methane at control device inlet)] x 100%. [District Rule 3.4/C-13-02]

C.16 The Permit Holder shall monitor each individual wellhead monthly to determine the gauge pressure. If there is any positive pressure reading other than as provided for well raising or repairs or temporary shutdowns of GCCS components in Title 17 CCR Section 95464 (d) and (e) the Permit Holder shall initiate corrective action within five (5) calendar days of the positive pressure measurement. If the problem cannot be corrected within fifteen (15) days of the date the positive pressure was first measured, the owner or operator must initiate further corrective action. Corrective actions must be completed and any new wells must be operating with 120 days of the date the positive pressure was first measured. [District Rule 3.4/C-13-02]

C.17 Gauge pressure shall be determined using a hand-held manometer, magnahelic gauge, or other pressure measuring device approved by the APCO that is calibrated and operated in accordance with manufacturer's specifications. [District Rule 3.4/C-13-02]

C.18 Any instrument used for the measurement of methane must be a gas detector or other equivalent instrument approved by the APCO that meets the calibration, specifications, and performance criteria of EPA Reference Method 21, Determination of Volatile Organic Compound Leaks. For the purposes of demonstrating compliance with this permit methane replaces all references to volatile organic compounds (VOC) in Method 21 and methane shall be used as the calibration gas for the detector. [District Rule 3.4/C-13-02]

C.19 In conducting measurements of landfill surface methane concentration the entire landfill must be divided into individually identified 50,000 square foot grids. The grids must be used for both instantaneous and integrated surface emissions monitoring. Testing must be performed by holding the hydrocarbon detector's probe within 3 inches of the landfill surface while traversing the grid. The walking pattern must be no more than a 25-foot spacing interval and must traverse each monitoring grid. If there are no exceedances of the surface methane concentration standards of this permit after any four (4) consecutive quarterly monitoring periods, the walking patter spacing may be increased to 100-foor intervals. The Permit Holder must return to a 25-foor spacing interval upon any exceedances that cannot be remediated within ten (10) calendar days or upon exceedances detected during a compliance inspection. Surface testing must be terminated when the average wind speed exceeds five (5) miles per hour or the instantaneous wind speed exceeds ten (10) miles per hour. The APCO may approve alternatives to this wind speed surface testing termination for landfills consistently having measured winds in excess of these specified limits. Average wind speed must be determined on a 15-minute average using an on-site anemometer with a continuous recorder for the entire duration of the monitoring event. Surface emissions testing must be conducted only when there has been no measurable precipitation in the preceding seventy-two (72) hours. [District Rule 3.4/C-13-02]

C.20 In conducting instantaneous surface emissions monitoring the Permit Holder shall record any instantaneous readings of methane 200 ppmv or greater (other than non-repeatable, momentary readings). Surface areas of the landfill that exceed a methane concentration of 500 ppmv must be marked and remediated as required by this permit. The wind speed must be recorded during the sampling period. Landfill surface areas with cover penetrations, distressed vegetation, cracks or seeps must be inspected visually and with a hydrocarbon detector. [District Rule 3.4/C-13-02]

C.21 In conducting integrated surface emissions monitoring the Permit Holder shall record readings and then average them for each grid. Individual monitoring grids that exceed an average methane

concentration of 25 ppmv must be identified and remediated as required by this permit. The wind speed must be recorded during the sampling period. [District Rule 3.4/C-13-02]

C.22 When any monitoring reading exceeds the instantaneous surface methane concentration limit the Permit Holder shall record the date, location, and value of each exceedance, along with re-test dates and results. The location of each exceedance must be clearly marked and identified on a topographic map of the landfill, drawn to scale with the location of both the grids and the gas collection system clearly identified. The Permit Holder shall take corrective action and re-monitor the location within ten (10) calendar days of the measured exceedance. If re-monitoring shows a second exceedance, additional corrective action must be taken and the location re-monitored again no later than ten (10) calendar days of the second exceedance. If the re-monitoring shows a third exceedance the Permit Holder shall install a new or replacement well as determined to achieve compliance no later than 120 days after detecting the third exceedance. [District Rule 3.4/C-13-02]

C.23 When any monitoring reading exceeds the integrated surface methane concentration limit the Permit Holder shall record the average surface concentration for each grid along with re-test dates and results. The location of the grids and the gas collection system must be clearly marked and identified on a topographic map of the landfill drawn to scale. The Permit Holder shall take corrective action and re-monitor the location within ten (10) calendar days of the measured exceedance. If re-monitoring shows a second exceedance, additional corrective action must be taken and the location re-monitored again no later than ten (10) calendar days of the second exceedance. If the re-monitoring shows a third exceedance the Permit Holder shall install a new or replacement well as determined to achieve compliance no later than 120 days after detecting the third exceedance. [District Rule 3.4/C-13-02]

C.24 The Permit Holder shall conduct instantaneous and integrated monitoring of surface methane concentrations every calendar quarter. If the landfill has no monitored exceedances of the surface methane concentration limits specified in this permit after four consecutive quarterly monitoring periods, then any closed or inactive areas may be monitored annually. Any exceedances detected during annual monitoring that cannot be remediated within ten (10) calendar days or any exceedances detected during any compliance inspections will result in a return to quarterly monitoring of the location. [District Rule 3.4/C-13-02]

C.25 The Permit Holder shall calculate the VOC emission rate using either:

a. $M_{VOC} = \sum_{i=1}^{n} 2\ k\ L_o\ M_i\ (e^{-kt}i)(C_{VOC})(3.6 \times 10^{-9})$, if the year-to-year solid waste acceptance rate is known

or

b. $M_{VOC} = 2\ L_o\ R\ (e^{-kc}-e^{-kt})(C_{VOC})(3.6 \times 10^{-9})$, if the year-to-year solid waste acceptance rate is unknown, Where:

M_{VOC} = mass emission rate of VOC, megagrams per year,
M_i = mass of solid waste in the ith section, megagrams,
L_o = methane generation potential, cubic meters per megagram solid waste = 170,
k = methane generation rate constant, $year^{-1}$ = 0.05 (0.02 for landfills located where the thirty year annual average precipitation is less than 25 inches, as measured at the nearest representative official meteorologic site),
t = age of landfill at gas collection system installation plus the intended time of use of the system, years,
t_i = age of ith section, years,
R = average annual acceptance rate, megagrams per year (the mass of nondegraable solid waste may be subtracted from the total mass of solid waste in a particular

section of the landfill when calculating the value of R if documentation of the nature and amount of such waste is maintained),

c = time since closure, years; for active landfill c = 0,

C_{VOC} = VOC concentration, parts per million by volume as hexane = 4,000. [District Rule 3.4/C-13-02]

C.26~~75.~~ ~~The Permit Holder shall submit a NMOC report to the District using the procedures specified in 40 CFR Part 60.754(a) at least once every twelve (12) months, except as provided in 40 CFR Part 60.757(b)(1)(ii) or 40 CFR Part 60.757(b)(3).~~ The Permit Holder shall submit a VOC emission rate report to the APCO at least once every twelve (12) calendar months. The report shall contain an annual estimate of the VOC emission rate calculated according to 40 CFR 60.754(a)(1). If the estimated VOC emission rate is less than 50 megagrams per year in each of the next five (5) consecutive years, the Permit Holder may elect to submit an estimate of the VOC emission rate for the next five (5) year period in lieu of the annual report. This estimate shall include the current amount of solid waste-in-place and the estimated waste acceptance rate for each year of the five (5) years for which a VOC emission rate is estimated. All data and calculations upon which this estimate is based shall be provided. This estimate shall be revised at least once every five (5) years. If the actual waste acceptance rate exceeds the estimated waste acceptance rate in any year reported in the five (5) year estimate, a revised five (5) year estimate shall be submitted to the APCO. The revised estimate shall cover the five (5) year period beginning with the year in which the actual waste acceptance rate exceeded the estimated waste acceptance rate. The report shall include all the data, calculations, sample reports, and measurements used to estimate the annual of five (5) year emissions. [40 CFR 60.757(b) and District Rule 3.4/~~C-10-34~~C-13-02]

C.27~~76.~~ The District must be notified prior to any emissions testing event (including ~~NM~~VOC related sampling or flare source testing) and a protocol must be submitted for approval 30 days prior to testing. The results of an emissions testing event shall be submitted to the District within 60 days of the test date. The protocol and report shall be mailed to the attention of the Supervising Air Quality Engineer. [District Rule 3.4/~~C-10-34~~C-13-02]

C.28 The Permit Holder shall submit an annual report to the APCO for the period of January 1 through December 31 by March 15 of the following year. The report must contain the following information:

a. landfill name, owner and operator, address, and Solid Waste Information System (SWIS) identification number,
b. total volume of landfill gas collected (in standard cubic feet),
c. average composition of the landfill gas collected over the reporting period (reported in % methane and % carbon dioxide),
d. emission control device type, year of installation, rating, fuel type, and total amount of landfill gas combusted in each control device,
e. the date that the GCCS was installed and in full operation,
f. the % methane destruction efficiency of each control device,
g. type and amount of pilot fuels burned in each control device,
h. total volume of landfill gas shipped off-site, the composition of the landfill gas collected (reported in % methane and % carbon dioxide by volume), and the recipient of the gas,
i. the most recent topographic map of the site showing the areas with final cover and a geomembrane and the areas with final cover without a geomembrane with corresponding percentages over the landfill surface, and
j. gas collection or control system downtime required to be recorded, expected gas generation flow rate, landfill surface methane concentrations required to be recorded, positive wellhead gauge pressure measurements required to be recorded, annual solid

waste acceptance rate and the current amount of waste-in-place, source test results, and equipment monitoring parameters required to be recorded including periods of operation during which the parameter boundaries established during the most recent source test are exceeded. [District Rule 3.4/C-13-02]

C.29 The Permit Holder shall submit a Closure Notification to the APCO within thirty (30) days of waste acceptance cessation. The Closure Notification must include the last day solid waste was accepted, the anticipated closure date of the landfill, and the estimated waste-in-place. The APCO may request additional information to confirm that the landfill has been permanently closed. [District Rule 3.4/C-13-02]

C.30 The Permit Holder shall submit a GCCS Equipment Removal Report to the APCO thirty (30) days prior to well capping, removal or cessation of operation of the gas collection, treatment, or control system equipment. The report must contain all of the following information:

a. a copy of the Closure Notification required by Title 17 CCR, Section 95470(b)(1),
b. a copy of the documentation demonstrating that the gas collection and control system has been installed and operated for a minimum of 15 years, unless the Permit Holder can demonstrate to the satisfaction of the APCO that due to declining methane rates the landfill is unable to operate the gas collection and control system for a 15-year period, and
c. surface emissions monitoring results needed to verify that landfill surface methane concentrations do not exceed either the instantaneous or integrated monitoring limits. [District Rule 3.4/C-13-02]

C.31 Any report, or information submitted by the Permit Holder must contain certification by a responsible official of truth, accuracy, and completeness. This certification, and any other certification required under this subarticle, must state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. [District Rule 3.4/C-13-02]

~~77. If the estimated NMOC emission rate as reported in the annual report to the Air Pollution Control Officer (APCO) is less than 50 megagrams per year in each of the next five (5) consecutive years, the owner or operator may elect to submit an estimate of the NMOC emission rate for the next 5-year period in lieu of the annual report.~~

~~a. This estimate shall include the current amount of solid waste-in-place and the estimated waste acceptance rate for each year of the 5 years for which an NMOC emission rate is estimated.~~
~~b. All data and calculations upon which this estimate is based shall be provided to the APCO.~~
~~c. This estimate shall be revised at least once every five (5) years.~~
~~i. If the actual waste acceptance rate exceeds the estimated waste acceptance rate in any year reported in the 5-year estimate, a revised 5-year estimate shall be submitted to the APCO.~~
~~ii. The revised estimate shall cover the 5-year period beginning with the year in which the actual waste acceptance rate exceeded the estimated waste acceptance rate. [40 CFR Part 60.757(b)(1)(ii)]~~

~~78. The NMOC emission rate report shall include all the data, calculations, sample reports and measurements used to estimate the annual or 5-year emissions. [40 CFR Part 60.757(b)(2)]~~

~~**Internal Combustion Engine Powering a Tipper (P-5-11(a))**~~

~~79. The Permit Holder shall perform a source test at least once every 12 months to demonstrate compliance with VOC, CO and NO_x emission limits. [District Rules 2.32, §303.2 and 3.4/C-12-11]~~

~~80. The Permit Holder shall install and maintain such facilities as are necessary for sampling and testing purposes. The number, size, and location of sampling ports shall be in accordance with Air Resources Board Test Method 1. The location and access to the sampling platform shall be in accordance with the General Industry Safety Orders of the State of California. [District Rule 3.4/C-12-11]~~

~~81. Source testing shall be conducted using the following test methods:~~
~~a. VOC – EPA Method 18;~~
~~b. CO – EPA Method 10, or CARB Method 100;~~
~~c. NO_x (as NO_2) – EPA Method 7E, or CARB Method 100; and~~
~~d. Stack gas oxygen – EPA Method 3A, or CARB Method 100. [District Rule 2.32, §502 and District Rule 3.4/C-12-11]~~

~~82. The District must be notified prior to any emissions testing event (source test or screening analysis), and a protocol must be submitted for approval 14 days prior to testing. The results of an emissions testing event shall be submitted to the District within 60 days of the test date. The protocol and report shall be mailed to the attention of the Supervising Air Quality Engineer. [District Rule 3.4/C-12-11]~~

Internal Combustion Engine Powering a Limited Use Generator Providing Power for a Truck Tipper (P-33-13)

C.32 The Permit Holder shall perform source test at least once every 12 months to demonstrate compliance with VOC, CO and NO_X emission limits. [District Rule 2.32, §303.2 and District Rule 3.4/C-13-66]

C.33 The Permit Holder shall install and maintain such facilities as are necessary for sampling and testing purposes. The number, size, and location of sampling ports shall be in accordance with Air Resources Board Test Method 1. The location and access to the sampling platform shall be in accordance with the General Industry Safety Orders of the State of California. [District Rule 3.4/C-13-66]

C.34 Source testing shall be conducted using the following test methods:
a. VOC - EPA Method 18;
b. CO - EPA Method 10, or CARB Method 100;
c. NOX (as NO2) - EPA Method 7E, or CARB Method 100; and
d. Stack gas oxygen - EPA Method 3A, or CARB Method 100. [District Rule 2.32, §502 and District Rule 3.4/C-13-66]

C.35 The District must be notified prior to any emissions testing event (source test or screening analysis), and a protocol must be submitted for approval 14 days prior to testing. The results of an emissions testing event shall be submitted to the District within 60 days of the test date. The protocol and report shall be mailed to the attention of the Supervising Air Quality Engineer. [District Rule 3.4/C-13-66]

D. Recordkeeping Requirements

Gasoline Dispensing and Storage Operation (P-28-98(a))

D.1~~83.~~ The owner/operator shall implement a preventative maintenance program with a manual that documents inspections, maintenance, repairs, applicable executive orders, District permits, manufacturer's operating and maintenance instructions, and testing requirements/procedures. [District Rule 2.22, §501/C-10-117]

D.2~~84.~~ The owner/operator shall keep records of all self-compliance inspections, source tests, repairs, and quarterly throughput. These records shall be retained for a period of two (2) years and shall be made available to District personnel upon request. [District Rule 2.22, §502/C-10-117]

Petroleum Contaminated Soil Handling Operation (P-64-00)

D.3~~85.~~ The Permit Holder shall maintain the following records for petroleum contaminated soil usage in a District-approved log book:

a. Petroleum contaminated soil lot number,
b. Date petroleum contaminated soil was received,
c. Amount of petroleum contaminated soil received daily in tons,
d. Total VOC concentration of the petroleum contaminated soil provided by the waste generator in milligrams of VOC per kilogram of soil, and
e. VOC emissions in pounds per day, pounds per calendar quarter, and tons per calendar year. [District Rule 3.4/C-99-134]

D.4~~86.~~ The Permit Holder shall make all petroleum contaminate soil usage records available to District personnel upon request and shall keep all records for a minimum of five (5) years from the date of entry. [District Rule 3.4/C-99-134]

MSW Landfilling Operation (P-85-06(a~~4~~5))

D.5~~87.~~ The Permit Holder shall maintain a written log of all maintenance work performed that requires the shutdown of the gas collection system. The log shall include a description of work, the date work was performed, and the amount of time needed to complete the maintenance work. Emissions of landfill gas to the atmosphere shall be minimized during each shutdown. [District Rule 3.4/~~C-10-34~~C-13-02]

D.6~~88.~~ The Permit Holder shall maintain daily records (in tons) of the total amount of MSW accepted at the landfill. [District Rule 3.4/~~C-10-34~~C-13-02]

D.7~~89.~~ The Permit Holder shall monitor and record on a quarterly basis the cumulative quarterly and annual landfill gas fuel usage (in cubic feet) from the totalizing meter serving the flare. [District Rule 3.4/~~C-10-34~~C-13-02]

D.8~~90.~~ The Permit Holder shall maintain all records on site for a period of five (5) years from the date of entry and these records shall be made readily available to District personnel upon request. [District Rule 3.8, §302.6(b)/~~C-10-34~~C-13-02]

D.9 The Permit Holder shall submit the following to the APCO:

a. A diagram of the collection system showing collection system positioning including all wells, horizontal collectors, surface collectors, or other gas extraction devices, including

the locations of any areas excluded from collection and the proposed sites for the future collection system expansion,

b. The data upon which the sufficient density of wells, horizontal collectors, surface collectors, or other gas extraction devices and the gas mover equipment sizing are based,

c. The documentation of the presence of asbestos or nondegradable material for each area from which collection wells have been excluded based on the presence of asbestos or nondegradable material,

d. The sum of the gas generation flow rates for all areas from which collection wells have been excluded based on nonproductivity and the calculations of gas generation flow rate for each excluded area,

e. The provisions for increasing gas mover equipment capacity with increased gas generation flow rate, if the present gas mover equipment is inadequate to move the maximum flow rate expected over the life of the landfill, and

f. The provisions for the control of off-site migration. [District Rule 3.4/C-13-02]

D.10 The Permit Holder shall keep for at least five (5) years up-to-date, readily accessible, on-site records of the current amount of solid waste in-place and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within four (4) hours. [40 CFR 60.758(a) and District Rule 3.4/C-13-02]

D.11 The Permit Holder must maintain records of each startup, shutdown, or malfunction in the operation of the landfill gas collection system of the VOC control device (and any periods during which a required monitoring device is inoperative) including the date and duration of the event, the actions taken, and whether or not such actions are consistent with the startup, shutdown, or malfunction plan. The Permit Holder must also maintain records of all maintenance performed on the air pollution control and monitoring equipment. [40 CFR 60.7(b), 40 CFR 63.10(b)(2)(i)-(v), 40 CFR 63.10(d)(5) and District Rule 3.4/C-13-02]

D.12 The Permit Holder shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part recorded in a permanent form suitable for inspection. [40 CFR 60.7(f)]

D.13 The Permit Holder shall maintain the following records:

a. all gas collection system downtime exceeding five (5) calendar days, including individual well shutdown and disconnection times, and the reason for the downtime,

b. all emission control system downtime in excess of one hour, the reason for the downtime, and the length of time the gas control system was shutdown,

c. expected gas generation flow rate calculations,

d. all instantaneous landfill surface readings of 200 ppmv of methane or greater, all leaks from components under positive pressure greater than 500 ppmv (as methane) , all instantaneous surface monitoring readings greater than 500 ppmv, all integrated surface monitoring readings greater than 25 ppmv, the location of the leak (or affected grid), leak concentration in ppmv, date and time of measurement, the action taken to repair the leak, date of repair, date of any required re-monitoring and the re-monitored concentration in ppmv, wind speed during surface sampling, and the installation date and location of each well installed in a GCCS expansion,

e. records of any positive wellhead gauge pressure measurements, the date of the measurements, the well identification number, and the corrective action taken,

f. annual solid waste acceptance rate and current amount of waste-in-place,
g. records of the nature, location, amount, and date of deposition of non-degradable waste for any landfill areas excluded from the GCCS,
h. results of any source tests,
i. records describing the mitigation measures taken to prevent the release of methane or other emission into the atmosphere: when solid waste was brought to the surface during the installation or preparation of wells, piping, or other equipment; during repairs or temporary shutdown of gas collection system components; or when solid waste was excavated and moved,
j. records of any construction activities including: a description of the actions being taken, the areas of the landfill affected by these actions, the reason the actions are required, and any landfill gas collection system components affected by these actions; construction start and finish dates, projected equipment installation dates, and projected shut down times for individual gas collection system components; a description of the mitigation measures taken to minimize methane emissions and other potential air quality impacts, and
k. records of the emission control device operating parameters required to be monitored as well as periods of operation during which the parameter boundaries established during the most recent source test are exceeded including: all three (3) hour periods of operation during which the average flare temperature was more than 50°F below the average combustion temperature during the most recent source test. [District Rule 3.4/C-13-02]

D.14 The Permit Holder shall maintain the following records for the life of the emissions control device:
a. the control device vendor specifications,
b. the gas generation flow rate measured during the initial source test, and
c. the percent reduction of methane achieved by the control device during the initial source test. [District Rule 3.4/C-13-02]

~~91. An amended design capacity report shall be submitted to the APCO providing notification of an increase in the design capacity of the landfill, within 90 days of an increase in the maximum design capacity of the landfill to or above 2.5 million megagrams and 2.5 million cubic meters. This increase in design capacity may result from an increase in the permitted volume of the landfill or an increase in the density as documented in the annual recalculation required in Section 60.758(f). [40 CFR Part 60.757(a)(3)]~~

Emergency IC Engine (P-86-06)

D.15~~92.~~ The Permit Holder shall maintain a log of the operation hours for the IC engine (P-86-06) identifying the type of usage (either maintenance or emergency), the duration and date of each usage. The log shall be retained for a period of five (5) years and be made available to District personnel upon request. [District Rule 3.4, §501/C-06-119]

Receiving, Storage, and Drying of non-hazardous Sludge with odor potential (P-81-10)

D.16~~93.~~ The Permit Holder shall maintain daily records (in tons) of the amount of non-hazardous sludge waste with odor potential received. [District Rule 3.4/C-10-42]

~~**Internal Combustion Engine Powering a Tipper (P-5-11(a))**~~

~~94. The Permit Holder shall monitor and record the cumulative quarterly and annual propane fuel usage from the totalizing meter. The records shall be updated quarterly and made available to the District upon request. [District Rule 2.32, §501/C-12-11]~~

~~95. The Permit Holder shall maintain records of:~~
~~a. Maintenance for the engine and control device according to the manufacturer's emission related instructions;~~
~~b. Notifications submitted to comply with 40 CFR Parts 60.4243 and 60.4243; and~~
~~c. Documentation from the manufacturer that the engine is certified to meet the applicable emission standards. [40 CFR Parts 60.4243 and 60.4245/C-12-11]~~

~~96. The Permit Holder shall maintain all records on site for a period of five (5) years from the date of entry and these records shall be made readily available to District personnel upon request. [District Rule 3.8, §302.6(b)/C-12-11]~~

Internal Combustion Engine Powering a Limited Use Generator Providing Power for a Truck Tipper (P-33-13)

D.17 The Permit Holder shall monitor and record the cumulative quarterly and annual propane fuel usage from the totalizing meter. The records shall be updated quarterly and made available to the District upon request. [District Rule 2.32, §501/C-13-66]

D.18 The Permit Holder shall maintain records of:
a. Maintenance for the engine and control device according to the manufacturer's emission related instructions;
b. Notifications submitted to comply with 40 CFR Parts 60.4243 and 60.4245; and
c. Documentation from the manufacturer that the engine is certified to meet the applicable emission standards. [40 CFR Parts 60.4243 and 60.4245/C-13-66]

D.19 The Permit Holder shall maintain all records on site for a period of five (5) years from the date of entry and these records shall be made readily available to District personnel upon request. [District Rule 3.8, §302.6(b)/C-13-66]

III. FACILITY WIDE REQUIREMENTS

A. Opacity

A.1~~97.~~ The Permit Holder shall not discharge into the atmosphere from any single source of emission whatsoever, any air contaminant for a period or periods aggregating more than three (3) minutes in any one (1) hour which is:
a. As dark or darker in shade as that designated as No. 2 on the Ringelmann Chart as published by the United States Bureau of Mines; or
b. Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subsection a. of this condition. [District Rule 2.3]

B. Nuisance

B.1~~98.~~ The Permit Holder shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public or which endanger the comfort, repose, health, or safety of any such persons or the public or which cause to have a natural tendency to cause injury or damage to business or property. [This permit condition is federally enforceable because it derives from District Rule 2.5 - Nuisance that is currently part of the California State Implementation Plan (SIP). The District is taking steps to remove Rule 2.5 from the SIP. Once the U.S.

Environmental Protection Agency (EPA) has taken final action to remove District Rule 2.5 from the SIP, this permit condition will become state-enforceable only]

C. Circumvention

C.1~~99.~~ The Permit Holder shall not build, erect, install or use any article, machine, equipment, or other contrivance, the use of which, without resulting in a reduction in the total release of air contaminants to the atmosphere, reduces or conceals an emission which would otherwise constitute a violation of Division 26, Part 3 and Part 4 of the Health and Safety Code of the State of California or District Rules or Regulations. [District Rule 2.17]

D. General Permit Requirements

D.1~~100.~~ No person shall build, erect, alter, or replace any facility, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants, or the use of which may eliminate or reduce or control the issuance of air contaminants, without first obtaining an authorization to construct from the APCO as specified in Section 401 of District Rule 3.1. [District Rule 3.1, §301.1]

D.2~~101.~~ No person shall operate any facility, article, machine, equipment, or other contrivance, for which an authorization to construct is required by District Rules and Regulations without first obtaining a written permit from the APCO. [District Rule 3.1, §302.1]

D.3~~102.~~ No person shall operate any facility, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate or reduce or control the issuance of air contaminants, without obtaining a permit from the APCO or the Hearing Board. [District Rule 3.1, §302.2]

D.4 The Permits to Operate shall not be transferable, by operation of law or otherwise, from one location to another or from one piece of equipment to another. It shall be the transferee's responsibility to inform the District on assumption of ownership or operating control of any item under a Permit to Operate from the District and for which a Permit to Operate will be required. For any such transfer as hereinabove described, said transferee shall submit an application for authorization in accordance with applicable District Rules. [District Rule 3.1, §304]

D.5 All Permits to Operate shall be renewable annually on the individual permit's anniversary date, commencing one year after the date of issuance. The Permit Holder shall pay a fee for the annual permit renewal. If the annual renewal fee is not paid by the specified due date, the District shall assess a penalty of not more than 50% of the fee due. Non-payment of renewal fees is grounds for permit cancellation. [District Rule 3.1, §305 and District Rule 4.1, §303 and §401]

D.6 Commencing work or operation under any Permits to Operate shall be deemed acceptance of all of the conditions so specified. [District Rule 3.1, §402]

D.7 The Permit Holder shall submit an annual throughput/production report at the end of each calendar year for each Permit to Operate. These reports are due no later than March 31 for the previous year. This report must include actual operating hours and actual amounts of materials processed (for materials that have process limits listed on the Permit to Operate). Each type of material and each type of process must be listed separately. [District Rule 3.1, §405.1]

D.8~~103.~~ The owner or operator of any facility, article, machine, equipment, or other contrivance for which a permit to operate is in effect shall notify the District office whenever a breakdown, malfunction, or operational upset condition exists which would tend to increase emissions of air pollutants or whenever any operating condition contrary to any provision of the permit to operate exists. Such notice shall be given to the District no later than four hours after occurrence during regular workday hours or no later than two hours of the District workday following an occurrence not during regular District workday hours. The notice shall provide the District information as to causes and corrective action being taken, with a schedule for return to required operating conditions. [District Rule 3.1, §405.3]

D.9 The Permit Holder shall report all excess emissions to the District within ninety-six (96) hours of the occurrence of excess emissions. [District Rule 3.1, §405.4]

D.10 The Permit Holder shall firmly affix all Permits to Operate, an approved facsimile, or other approved identification bearing the permit number upon the facility, article, machine, equipment, or other contrivance in such a manner as to be clearly visible and accessible. In the event that the facility, article, machine, equipment, or other contrivance is so constructed or operated that the Permit to Operate cannot be so placed, the Permit to Operate shall be mounted so as to be clearly visible in an accessible place within twenty (25) feet of the facility, article, machine, equipment, or other contrivance, or maintained readily available at all times on the operating premises. [District Rule 3.1, §408]

IV. TITLE V GENERAL REQUIREMENTS

A. Right of Entry

A.1~~104.~~ The permit shall require that the source allow the entry of the District, ARB, or U.S. EPA officials for the purpose of inspection and sampling, including:

a. Inspection of the stationary source, including equipment, work practices, operations, and emissions-related activity;
b. Inspection and duplication of records required by the permit to operate; and
c. Source sampling or other monitoring activities. [District Rule 3.8, §302.10]

B. Compliance with Permit Conditions

B.1~~105.~~ The Permit Holder shall comply with all Title V permit conditions. [District Rule 3.8, §302.11(a)]

B.2~~106.~~ The permit does not convey property rights or exclusive privilege of any sort. [District Rule 3.8, §302.11(b)]

B.3~~107.~~ Non-compliance with any permit condition is grounds for permit termination, revocation and reissuance, modification, enforcement action, or denial of permit renewal. [District Rule 3.8, §302.11(c)]

B.4~~108.~~ The Permit Holder shall not use the "need to halt or reduce a permitted activity in order to maintain compliance" as a defense for non-compliance with any permit condition. [District Rule 3.8, §302.11(d)]

B.5~~109.~~ A pending permit action or notification of anticipated non-compliance does not stay any permit condition. [District Rule 3.8, §302.11(e)]

B.6~~110.~~ Within a reasonable time period, the Permit Holder shall furnish any information requested by the APCO, in writing, for the purpose of determining:

a. Compliance with the permit; or

b. Whether or not cause exists for a permit or enforcement action. [District Rule 3.8, §302.11(f)]

C. Emergency Provisions

C.1~~111.~~ Within two weeks of an emergency event, the owner or operator shall submit to the District a properly signed contemporaneous log or other relevant evidence demonstrating that:

a. An emergency occurred;

b. The Permit Holder can identify the cause(s) of the emergency;

c. The facility was being properly operated at the time of the emergency;

d. All steps were taken to minimize the emissions resulting from the emergency; and

e. Within two (2) working days of the emergency event, the Permit Holder provided the District with a description of the emergency and any mitigating or corrective actions taken; and

In any enforcement proceeding, the Permit Holder has the burden of proof for establishing that an emergency occurred. [District Rule 3.8, §302.12]

D. Severability

D.1~~112.~~ If any provision, clause, sentence, paragraph, section or part of these conditions for any reason is judged to be unconstitutional or invalid, such judg~~e~~ment shall not affect or invalidate the remainder of these conditions. [District Rule 3.8, §302.13]

E. Compliance Certification

E.1~~113.~~ The Responsible Official shall submit a compliance certification to the U.S. EPA and the APCO every twelve (12) months unless required more frequently by an applicable requirement. The twelve (12) month period will begin on January 1 and end on December 31, and will be due by January 31 for the previous reporting year, unless otherwise approved in writing by the District. All compliance reports and other documents required to be submitted to the District by the responsible official shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. [District Rule 3.4, §409 District Rule 3.8, §302.14(a)]

E.2~~114.~~ The compliance certification shall identify the basis for each permit term or condition (e.g., specify the emissions limitation, standard, or work practice) and a means of monitoring compliance with the term or condition consistent with Sections 302.5, 302.6, and 302.7 of District Rule 3.8. [District Rule 3.8, §302.14(b)]

E.3~~115.~~ The compliance certification shall include a statement of the compliance status, whether compliance was continuous or intermittent, and method(s) used to determine compliance for the current time period and over the entire reporting period. [District Rule 3.8, §302.14(c)]

E.4~~116.~~ The compliance certification shall include any additional inspection, monitoring, or entry requirement that may be promulgated pursuant to Sections 114(a) and 504(b) of the Federal Clean Air Act. [District Rule 3.8, §302.14(d)]

F. Permit Life

F.1~~117.~~ The Title V permit shall expire five (5) years from the date of issuance. Title V permit expiration terminates the stationary source's right to operate unless a timely and complete Title V permit application for renewal has been submitted. [District Rule 3.8, §302.15]

G. Payment of Fees

G.1~~118.~~ An owner or operator shall pay the appropriate Title V permit fees on schedule. If fees are not paid on schedule, the permit is forfeited. Operation without a permit subjects the source to potential enforcement action by the District and the U.S. EPA pursuant to Section 502(a) of the CAA. [District Rule 3.8, §302.16]

H. Permit Revision Exemption

H.1~~119.~~ No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in the permit. [District Rule 3.8, §302.22]

I. Application Requirements

I.1~~120.~~ An owner or operator shall submit a standard District application for renewal of the Title V permit, no earlier than eighteen (18) months and no later than six (6) months before the expiration date of the current permit to operate. [District Rule 3.8, §402.2]

I.2~~121.~~ An owner or operator shall submit a standard District application for each emissions unit affected by a proposed permit revision that qualifies as a significant Title V permit modification. The application shall be submitted after obtaining any required preconstruction permits. Upon request by the APCO, the owner or operator shall submit copies of the latest preconstruction permit for each affected emissions unit. The emissions unit(s) shall not commence operation until the APCO approves the permit revision. [District Rule 3.8, §402.3]

I.3~~122.~~ An owner or operator shall submit a standard District application for each emissions unit affected by the proposed permit revision that qualifies as a minor permit modification. The application shall be submitted after obtaining any required preconstruction permits. The emissions unit(s) shall not commence operation until the APCO approves the permit revision. In the application, the owner or operator shall include the following:

a. A description of the proposed permit revision, any change in emissions, and additional applicable federal requirements that will apply;
b. Proposed permit terms and conditions; and
c. A certification by a responsible official that the permit revision meets criteria for use of minor permit modification procedures and a request that such procedures be used. [District Rule 3.8, §402.4]

J. Permit Reopening for Cause

J.1~~123.~~ Circumstances that are cause for reopening and revision of a permit include, but are not limited to, the following:

a. The need to correct a material mistake or inaccurate statement;
b. The need to revise or revoke a permit to operate to assure compliance with applicable federal requirements;

c. The need to incorporate any new, revised, or additional applicable federal requirements, if the remaining authorized life of the permit is three (3) years or greater, no later than 18 months after the promulgation of such requirement (where less than three (3) years remain in the authorized life of the permit, the APCO shall incorporate the requirements into the permit to operate upon renewal); or

d. Additional requirements promulgated pursuant to Title IV as they become applicable to any acid rain unit governed by the permit. [District Rule 3.8, §413.1]

K. Recordkeeping

K.1~~124.~~ The Permit Holder shall record maintenance of all monitoring and support information required by any applicable federal requirement, including:

a. Date, place, and time of sampling;

b. Operating conditions at the time of sampling;

c. Date, place, and method of analysis; and

d. Results of the analysis. [District Rule 3.8, §302.6(a)]

K.2~~125.~~ The Permit Holder shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of sample collection, measurement, report, or application. [District Rule 3.8, §302.6(b)]

L. Reporting Requirements

L.1~~126.~~ Any deviation from permit requirements, including that attributable to upset conditions (as defined in the permit), shall be promptly reported to the APCO. For the purpose of this condition prompt means as soon as reasonably possible, but no later than ten (10) days after detection. [District Rule 3.8, §302.7(a)]

L.2~~127.~~ A semi-annual monitoring report shall be submitted at least once every six (6) consecutive calendar months and shall identify any deviation from permit requirements, including that previously reported to the APCO pursuant to Section 302.7(a) of Rule 3.8. The six (6) month periods shall be January 1 through June 30 and July 1 through December 31. The reports shall be submitted by July 30 and January 30 following each reporting period, respectively unless otherwise approved in writing by the District. [District Rule 3.4, §409 District Rule 3.8, §302.7(b)] ~~Unless otherwise approved in writing by the District, the following shall apply:~~

~~a. The first six (6) month monitoring period will begin on January 1 and end on June 30, and the report will be due by July 31 of the reporting year; and~~

~~b. The second six (6) month period will begin on July 1 and end on December 31, and will be due on January 31 of the following calendar year.~~

L.3~~128.~~ All reports of deviation from permit requirements shall include the probable cause of the deviation and any preventive or corrective action taken. [District Rule 3.8, §302.7(c)]

L.4~~129.~~ Each monitoring report shall be accompanied by a written statement from the responsible official that certifies the truth, accuracy, and completeness of the report. [District Rule 3.8, §302.7(e)]